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Serial No.: 10/632,008

Examiner: Sharon E. Kennedy

Group Art Unit: 1615

CLAIMS:

- 1. (Currently Amended) An implantable or insertable medical device comprising (a) a therapeutic agent and (b) a polymeric release carrier region that comprises said therapeutic agent and which controls the releases of said therapeutic agent upon administration to a patient, said polymeric release carrier region comprising a silicone copolymer comprising a plurality of siloxane units and a plurality of non-siloxane units wherein said polymeric release region is a barrier region disposed over a therapeutic agent containing region that comprises said therapeutic agent.
- (Cancelled)
- 3. (Cancelled)
- 4. (Original) The implantable or insertable medical device of claim 1, wherein said polymeric release region is in the form of a coating layer that covers all or a part of said medical device.
- 5. (Original) The implantable or insertable medical device of claim 1, wherein said implantable or insertable medical device is selected from a catheter, a guide wire, a balloon, a filter, a stent, a stent graft, a vascular graft, a vascular patch and a shunt.
- 6. (Original) The implantable or insertable medical device of claim 1, wherein said implantable or insertable medical device is adapted for implantation or insertion into the coronary vasculature, peripheral vascular system, esophagus, trachea, colon, biliary tract, urinary tract, prostate or brain.
- 7. (Original) The implantable or inscrtable medical device of claim 1, wherein said therapeutic agent is selected from one or more of the group consisting of anti-thrombotic agents, anti-proliferative agents, anti-inflammatory agents, anti-migratory agents, agents affecting

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extracellular matrix production and organization, antineoplastic agents, anti-mitotic agents, anesthetic agents, anti-coagulants, vascular cell growth promoters, vascular cell growth inhibitors, cholesterol-lowering agents, vasodilating agents, and agents that interfere with endogenous vasoactive mechanisms.

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- 8. (Original) The implantable or insertable medical device of claim 1, wherein said silicone copolymer has an elongation at break of at least 25% at ambient temperature.
- 9. (Original) The implantable or insertable medical device of claim 1, wherein said nonsiloxane units are elevated Tg non-siloxane units corresponding to monomers selected from vinyl monomers, aromatic monomers, methacrylic monomers, acrylic monomers and alkene monomers.
- (Original) The implantable or insertable medical device of claim 1, wherein said 10. copolymer is a block copolymer comprising (a) a block of said siloxane units and (b) a block of elevated Tg non-siloxane units.
- 11. (Original) The implantable or insertable medical device of claim 10, wherein said block of said elevated Tg non-siloxane units is selected from poly(vinyl monomer) blocks, poly(aromatic monomer) blocks, poly(methacrylic monomer) blocks, poly(acrylic monomer) blocks and poly(alkene monomer) blocks.
- (Original) The implantable or insertable medical device of claim 10, wherein said block 12. of said elevated Tg non-siloxane units is selected from substituted and unsubstituted polystyrene blocks.
- (Original) The implantable or insertable medical device of claim 10, wherein said block 13. of said elevated Tg non-siloxane units is selected from substituted and unsubstituted poly(alkyl methacrylate) blocks.

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(Original) The implantable or insertable medical device of claim 10, wherein said block 14. of said elevated Tg non-siloxane units is selected from poly(styrene) blocks, poly(methyl methacrylate) blocks, poly(ethyl methacrylate) blocks, poly(isopropyl methacrylate) blocks, poly(isobutyl methacrylate) blocks, poly(t-butyl methacrylate) blocks and poly(cyclohexyl methacrylate) blocks.

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- (Original) The implantable or insertable medical device of claim 10, wherein said block 15. copolymer comprises (a) a first glass transition temperature that is greater than ambient temperature and (b) a second glass transition temperature that is less than ambient temperature.
- (Original) The implantable or insertable medical device of claim 15, wherein said first 16. glass transition temperature that is greater than 75 °C and said second glass transition temperature that is less than 0°C.
- (Original) The implantable or insertable medical device of claim 1, wherein said non-17. siloxane units are low Tg non-siloxane units corresponding to monomers selected from acrylic monomers, methacrylic monomers, vinyl ether monomers, cyclic ether monomers, ester monomers, unsaturated hydrocarbon monomers, and halogenated unsaturated hydrocarbon monomers.
- (Original) The implantable or insertable medical device of claim 1, wherein said 18. polymeric release region further comprises a supplemental polymer.
- (Original) The implantable or insertable medical device of claim 10, wherein said block 19. copolymer comprises at least two different types of said elevated $T_{\rm g}$ non-siloxane units.
- (Original) The implantable or insertable medical device of claim 1, wherein said 20. medical device is sterilized using a quantity of radiation effective to kill pathogens.

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- 21. (Original) The implantable or insertable medical device of claim 1, wherein said silicone copolymer comprises first and second glass transition temperatures, and wherein said first glass transition temperature is below ambient temperature and wherein said second glass transition temperature is above ambient temperature.
- (Original) The implantable or insertable medical device of claim 10, wherein said block 22. of said siloxane units corresponds to a rubbery phase within said release region at ambient temperatures, and wherein said block of said elevated Tg non-siloxane units corresponds to a hard phase within said release layer at ambient temperatures.
- 23. (Original) The implantable or insertable medical device of claim 10, wherein said block copolymer is selected from a diblock copolymer, a triblock copolymer and a graft copolymer.

24-27. (Canceled)